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<110> ChondroGene
    Liew, Choong-Chin

<120> Method for the Detection of Gene Transcripts in Blood and Uses
    Thereof

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<150> US
<151> 2000-01-04

<150> US 60/115,125
<151> 1999-01-06

<160> 112

<170> PatentIn version 3.2

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cccacatttc catttttaat atatactgtg ctttacaaat attataatat gttttaaaat   180

40 atgttcacag aagcacctgg tctgtgaatg gcatgccagc attaaaaaaa ataagcattc   240

tttgaatata tatttagttt tttaatgtgg taggaaaatc aaagccagag ggagtagaaa   300

caaaatttgt gattttctaa atacttcttg gctgcaggga agaaaccacg tcccaggcga   360
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15 aaaggggggaa ggcccccaaa accgggggggg gggnaaaaag gtgggtttcc cccttttttcc   180

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 45   caaattgggg ggnaaaccaa atttaaggggg ggaaggggggg gncccccccg ggaaaggccc      180
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156

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15
ctgtacttga actctaaaac tgttggagaa actcagtgct taccccaaca gattcatttc   180

aaatagctgt aaaaggtatg tttactccag aagaccagag ttgcttcttt tgaacttctc   240

20   attccttggg cctaggaacc ctcatcaccc tcatcccaac gtcaacccag atcttctctt   300

ccataaacag cactccctca ggcccctgcc tgacacaggc atagactgtc atgttggatt   360

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tttaggcggc accccaacaa caccaggccc tacttttttcc aaggncgggg aagcccatgg   180
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gttctgggna acgggcaatg cgggcttgca acgggnggaa naaaaacagn cccaaaagaa   240

tg   242

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     tctcagctca ctgcaacctc cacctctcag gagaattgct gaacctggga ggcggaggtt   120

15   gcagggagct gagattgcgc cactgccctc catcctgggc gacagagcaa gaacctgtct   180

     c   181

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cgggaaggcc nttggggaaa aaaccaangg ncaaacccccc ccaaccacnc ggcccccccc   120

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aaggggggtg gggaagagcc aaatttctttt gggaaanaac gcccccttgg ggaaaanaag   180

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ggaagaattg tatgtgggag tttttaatgg tctcatttca ttggctataa ctcagttaca   180

aggagaaata taactgcaga ggagctttga aaatttagtt cagctgaggg taaaggaaga   240

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40 ttgaggcgaa aggactcgcg gatttgacgc ttgatgcggt tgcgctcgac ggcgagcttg   180

acgctctttt tgccgatcac caaacctagg cggggatgat caagctggtt atcgcgcgct   240

agcagcagga cactttttgcc cgggagcttt accgcttggg gagtcgaaga ctgccttgna   300

45

ttgccgggga gtcagcagtc gcttttttccc ggncgaagcc tcgaactcac cancctgtct   360

166

ggattaatta gacagcaaga cgcttgcggc ccctttggcg cgaacgaacn ncgaaaagga   420

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gccaaacccc cc   492

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gagaaccccg cacaccgaaa ggctaaggat tcctccgcta tgtcaatcaa cggagggtta   180

gtcgggtact aaggcgttag cgaaggcgaa gcgccgatgt gaaggggggtt aatattcctc   240

cacttgccat gcgtgtgaat ccatgacgga gacgaagccg ggggtgcgtc ctgacggaag   300

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aagaaggaac ccaccctngg ggccaaacaa aaacttaaaa accccccat ttcntncccc   180

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agctaatttc tgctctgctc cttctgtgac atgtggcagc gtgggaaata gccactgtcc   240

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5   actagatttt actgtagatg gtagataaaa gtccagtgaa aagcaaagat gtgtaatgtt   180

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tgnaatacta ttgcctctta tatacacnac caannntgcg aagggcnann nnacctttnc   180

cantnnnctg gggncccacn nnngngaact gagagtggat cttgtgtacc tgacnnacca   240
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gntntnnagn agggcgctca ctctgattgg tgcaccatgg ttacacagtg tgtgcaaaga   300

ccngnctatc tcactganga tgattgncag ngccnntggg tggcacnang ggnactgatg   360

25 ancancactg accctgccga cgccagangc cgcanatccg gagantncat gngacnatat   420

aggttaccnc cttcnaccgg gcancaatct gcttctatgg tgaatgcaga ccatntagaa   480

ntctntcnct ataggcatga ttttnnncag tgcgtcagcc ttganaanga ancnnacttt   540
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tgntagatga nnngntgctc ncccttgngg ctnacaaatt ccancaccnt tggtggcngc   600

agccnttaag ancacttntt ttgggttgcg ctnttggatg aattacnaat agnntgtttt   660

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caagtacgcn agcnctgaan ctaaagcaag caagaaaaag   100

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<212> DNA
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<400> 54

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tagatatggg aagattatag gaggcgacaa ctaccgagcc tggtgatagc tggtgtccaa 180

gaagagtctt agttcattta tttggcccag aaccctctaa tccccttgta atttatgtca 240

agaggaacag ctctttggac actggaaaac cgtgagagag taagatttac acccttaggg 300

gcctaatagc agccaccatt aagaaagcgt tcgctccaca cccactacct aaaaatcgaa 360

tataactgac tcctcacacc caattggcca atcattcccc tataaaagaa ctatgttagt 420

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cntatctcaa ctaatnataa atgggaaaat gggcaactgg gcaggcngaa cccagaggga   120

40 agcctgccct cattagacca agacagcaag gtttnccctg gtcactagat gaaatt   176

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ggatttgggg tttagaggta caattgcctt tttatggtta gagaaaggtc ctggggctgg   180

agggagcctg acgatctgct ctgtgtgcaa ggggagagtt aactctgcac gcaagagcct   240

gcttaaaggg ctgtgtcagt tctattgtaa acaccaactt aaagtggtgg atgctggcag   300

acattgttat tgccatt   317

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<211> 209
<212> DNA
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aggagaattg cgtcatttaa agcctgttga cgcttttctc ccgcagacga atggaaagat   180

taattgggag tgggggctga aacaattcg   209

<210> 58
<211> 262
<212> DNA
<213> Human

<400> 58
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acctggtcac cgagttgcga accagcctcc aatatgtgga accctgtact ctctaaaaat   120

221

caaatcaccg gcatggagat tgcgcctgtg gtcccaaaat actcgggctg ggacacgatg   180

agttgcttgg cccaaggaag gagggttgta tggctgatca cactggtccg cctgggtgac   240

5   agagcgagac tccatctcta at   262

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<213> Human

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aaacctttat tgtcttacag ggggggaacta gcgcggggct gaataaaacc tttggcccctt   120

cccggggggag gggtatccgg tttataaacc ccaagggtat tttcttagca aaatacttaa   180

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tctgggatgg gaatatgagt ttttatacat ttcattttct ttttgggcaa aggcccggtt   300

aagtattccc ccccggggggg cctttacaaa aagggcggtt ttaaaagctt ttgggcccccc   360
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ctagggaatt gttttaacac ctaaaaaccc ctgcttccct taaaggggcg ttctttaatt   420

tgggggcggc   430

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atcctactag cttggaggat ttgaaccgat tatgaatacg caatactccc ggtcctcatg   120
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tatcatgtgt aagcccatct cctgggaggg ctaacatact accatctcca aggagaggca   180

tgattccgaa tcacccacag acagctcgat caccatacgt atcacccaac atatatacct   240

45 tctaagactt gctagaaaca accaccacat ttgatgctta atcaccactc tgacgcgcat   300

222

taaagtgagg ggactctcct aatttctgta agttgatttt tgcattctga   350

<210> 61
<211> 515
<212> DNA
<213> Human

<400> 61
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cactttcttt gagaattcaa catattgcaa gttaaaattt tcatagacta cacaagaaag   120

aataatcagg caaatcctta agaataaggg caattaagga tgactagccc tacaagattt   180

taaaaaggat tcattagttt aaaaaatgtg atgtagatac atgaataaaa taaaatcttg   240

aagtagatcc aaatatacat ggtcagattg aatacaataa agatggcatc gtagcagtgg   300

agaaaagaag aattatttca taaaccttgt tggaatggct aggcaatcat ctggaaaaaa   360

atgaagttga ataataaaaa tatattctac actagcacaa attataaata aagcagtgat   420

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aataatccac cagatacaag tttgcatcaa cttctgtgaa atattttttt tccttttgt   180

tgggcatttt tatggtctaa atatagaatg accaatgcct ctagaacaaa cttgacctgg   240

tcagtgttat caagaagcag actgtttctt actttctttg tatttcctta cttatttaaa   300

tttgttaaaa ttgatatatt gatatataaa acttctttg ccagtgttgg tggcacacgc   360

223

ctttaatccc agcacttagg aggcagaggc agggtggatt tctgaatttg agggcaggct   420

agtctacaga gcaagttcca ggtcagccaa ggctatatat agaaactctg gcatgaaaaa   480

5   ccaaccaaac caaaccaaac caaaccagac cagaccagac cagaccagac caaaccaaac   540

caaaccagac taaaccaaac caaaccagac cagaccagac cagaccagac cagaccagac   600

cagaccaaac t   611
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<210> 63
<211> 291
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<400> 63
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20 taatgcgaat atacttcctc ttctttttgc atggtcttgc ccagcctctg caatactgat   120

gaacacatgc tgaagatcat ctaactcaat atggcgcata tttctatgtc ttgctgccca   180

ggacatagga caacttcgtc gctcactagt tctaacatat taatgctggc gtaggtggag   240
25 aactactgca catatactct tactcggagg ctgaggcacg aggatcactt g   291

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30 <211> 309
<212> DNA
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<400> 64
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cattatcacc tctcactctc gcgtgttacc taactctccc tcgcagggga aatcactcca   120

tatatttcaa atgtcttgct aacagtggtt actttgctct atccttagct atacgtctcg   180
40 aggcacattg ttcctctatg ccccgctacg ctttgcccta gagctcggcg gtatctatat   240

cttaactgcc ctcttgatcc ttacgtgccg gagaaggtgg aggcagaaat tttgtcaaat   300

45 ctgattaga   309

224

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<211> 278
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10   tggaataaag tggaatagac tcgaatggaa tggaatgcaa tggaatggac tcgaatggaa   120

aagggatggaa tggactcgaa gggaatggaa tggaatggat tcgaatggaa aggaatggaa   180

tggactcaaa aggaatggaa tggaatggac tcaaatggaa tggactcgaa ttgaatgaaa   240
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tgtaatggaa tagactcgaa tggaatggaa cgaaattt   278

<210> 66
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<213> Human

<400> 66
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ttttttaac tgtaggaggt ttataataat gctcatatgg aaaaataaaa catgtaaaaa   120

atagctagta aactccccct gt   142
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<210> 67
<211> 286
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40   aaagatgatc tcctcatgct tccatgcact gcgagtagaa gacatactga gcatagtgtg   120

attattttcc caacaaattg gcattcatag atagaataag ctgactaaga ctacttagcc   180

ccacatttt ttctacttgc tccaatagca ctaacaaata ggaagctctt gcttgctccc   240
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<210> 68
<211> 179
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<400> 68
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tagaagtcat tattttatta taaaacatgt ggattagata ttttcattta tgtgattaaa   120

ctttctaaac aaagattata tgaattatct aaagattta aaaagtaatt aagttaaat   179

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ttttgaattc taaactgtct ctgggtgggt gtgggtgcca ccaagagcat gtgttcatgt   180

agggagactg gttttttaca gttgtctatg agagagatga cagttgcctg gattatggtg   240
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gtgacattgg agataagcag gtagacagat tctcagtgta ttaggagaga aaaatcaata   300

ggaaatttaa aataaataat taactgtggc cataggagga aggagtcttt gggttnggtt   360

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gatgacataa aatgagatga aatgagatgt aatgatggaa tgagatgaga tgaaatgaga   120

tgaaatgata gatgagataa aatgatgata tgaaatgatg agatgaatga tgagatgatg   180

15 agatgaatga tgaaatgaaa tgatgagatg agatgatgaa atgaaatggt gagatgaaat   240

gatgagatga aatgaaatag tgaaatgaaa ttgaaataaa atcgaaatga gagatgaaat   300

gatgagatga tgaaattgat gaaatgatga gatgtgatga gatgaaatga tgagatgaga   360
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tgagatgaca tgaaataatg aaatgaaatt gaaatgagat aagatacgag ctgagatgca   420

atgagatgaa atgatgagat gaaatgaaat agtgaaatga aattgaaata aaatcgaaat   480

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15   ngacgcgccg tacaggntna attatggnan cttacatggn aaaggggcan ctcaatgtcc   120

     cacag   125

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     atgagatgaa atgttgaaaa gaaaggagga aatgatgagg tgagatgaaa tgatgagatg   120
35
     aaatgaatct gagatgaaat gagatgaaaa ntgatacgaa aaatgatata aaaaatatga   180

     cctgagatga aatgagatga aaaatgatac gaaaaatgat ataaaaaata tgacatgaaa   240

40   tgaaatgaga tgatatgaaa tgacataatg aaatgatgaa ttgatgatat tgaaatgaaa   300

     ttgaaagatg agatgaaatg atgagatgaa atgaaatgtt gaaatgatga agagatgtga   360

     catgaaatga gctgaaatga gatgaaatga aatgagatta aatgatgaga tgaaaaatga   420
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     tgagatgaaa aatgagatga gatgatgaga tgagatgaga tgaattgaga tga   473

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<223> n is a, c, g, or t

<220>
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<222> (233)..(233)
<223> n is a, c, g, or t

<400> 73
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aaatgaaatt agatgaaatg taatgagatg aaatgaaatg acctaatgaa atgaaataat    120

gaaatgagat gaaataaaat aatgaaatga tgaaataatg aaatgaaaat gagatggaaa    180

tgatgagatg agaagaaatg atgagatgaa atgatgaaat gatgagatga ganaaaatga    240

gatgaaatga tgagatgaga tgaaatatga tgagttgaaa tgacataatg aatgaaatga    300

tgaaatggaa taatgaaatg gaaatgatga gctgagatgc aatgagttga aatgagatga    360

aatgatgaaa tgatgagatg aaatgatgaa atgaaataat gaaatgagat gaaataaaat    420

aatgaaatga tgaaataatg aaatgaaaat gaaatggaaa tgatgagatg agaagaaatg    480

atgagatgaa atgatgaaat                                                500


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230

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<223> n is a, c, g, or t

<400> 74
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tgaaatgatg agatgaaatg atgagatgag atgtgatgaa atgatgatat gaaatgatga   120

cataaaatga gatgaaatga gatgtaatga tggaatgaga tgagatgaaa tgagatgaaa   180
20
tgatagatga gataaaatga tgatatgaaa tgatgagatg aatgatgaga tgatgagatg   240

aatgatgaaa tgaaatgatg agatgagatg atgaaatgaa atggtgagat gaaatgatg   299

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taaaatgatg aaatgatgag gtgatgagat gaaatgatga gatgaaatga tgagatgaga   120
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ctacttnaga ngaantcctc gcaaaatcct tgaatcaccg cttcagtgca gtgatatcac   120

cgccatgaaa tttctgctcg attagcttac gttgtttgga tagaggccaa acaaggctgt   180
45
tatcggtacg aggaatggat gttcgatttc gtagaatacg cctgagagac ggcgaatact   240

ctcacgagag gcagcaggcg cgtaaattac ccaattacaa caagtagagg tagcgaagga   300

aaatatgagg ggtggcaagg ttttgcctgt tacattctca aatggaagca aattagatat   360

gtcattg   367

<210> 77
<211> 257
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<223> n is a, c, g, or t

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atagaaatca ttatttctgt gggatggata attgggccaa attgtaaaat attttaacta   120

tcagtgtttg gggtttattt ttaaaagaat agggtgccac cagatgttct ttagtggagg   180

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aggtcctttc ttagtct   257

<210> 78
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<213> Human

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233

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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nntaantaaa aagggtgaag aannttactt cncttggtcc taaaaaacnt tttcntcagt   120

tattaccaaa atatttggac cattantaaa gantagggcc aacccnaatt tttcttgaaa   180

tttccgttaa atagccgtta aatgtttta cccatttcat attggatacc ttaaattata   240

ataatggatt ttattgttaa attgtgtgtg tgtggtgtgt atgccctgtc ttttctcctc   300

taccattatt gtcactttat gtttggaacc ccctttaccc ttccttaaag gaaaaaaagg   360

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<210> 79
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<212> DNA
<213> Human

235

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25   <223> n is a, c, g, or t

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30   <223> n is a, c, g, or t

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40   <210> 80
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<212> DNA
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45
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236

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<223> n is a, c, g, or t

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      ggccaggcct tccctttaaa aaaaaatnac cgtttttngg gggangnaac ctttaaaagg    120

      ggaaaanaaa tccttttttaa anggaantcc aagggaagga ncctgnncaa nacttccccn    180
30
      ccaataaaaa aaaccntttt ggaaangggg aaa                          213


      <210> 81
35    <211> 443
      <212> DNA
      <213> Human


40    <220>
      <221> misc_feature
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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

<400> 81

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tgatgaaatg agatgagatg agaagaaatg acttgatgag atgagataaa atgatgaaat   120

gaaatgaagt gaaatgaaat tgaaatgaga tgagatgaaa tgagataaaa tgatgagatg   180

aaatgagaag aaatgagatg aaatgatgaa atgatgagat gagatgaaaa atgatgggat   240

gagaaatgag atgaaatgat gggatgaaat gaaatgaaat aatgaaataa tgaaatgaaa   300

tgaattgata atattgaagt gaaattgaaa gatgagattg gatgaaatga tgagatgaaa   360

tgaaatgttg aaatgaaatg aagagatgta acatgaaatg agctgaaatg atgagatgaa   420

atgaaatgaa atgagattaa atg   443

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239

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25 gacctctgaa tgtattantg anncaagtga tagccaagat attttgaaga aaaatagata   120

ntagggacct gctctataag cccatcataa tttattatga agttataaca agtaaaacag   180

taaggtattt ggcatggaat agagaaccca gaaacagacc caatgcatgg gtacaggata   240
30
taacacaggg aaatgaggga caatatatgg ttctgggata attatttata tggggaaaat   300

aaagaaattg gatccctacc tcacacatac aaaaaaaatc ataattgaat taaaaacttg   360

35 catgtgaaag gaaagacttt aaaacattta gaaaaagtat tggaggctat gatcttgggg   420

taggaaagca tttctttttt tt   442

40 <210> 83
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    <212> DNA
    <213> Human

45
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240

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5   <220>
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<223> n is a, c, g, or t

10 <400> 83
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aggagggaaa agaaagaaag gaaggaagga aggaaaagaa agaaagaaag gaaggaagga   120

15 aggaaggaag gaagg   135

<210> 84
<211> 346
20 <212> DNA
<213> Human

<220>
25 <221> misc_feature
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<223> n is a, c, g, or t

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gagttgcctt ctgtaagtgc ccctactatc aaggtttcat ggaaaatcta ggcaaggcag   120

aacttcctca gaaggacaag agacaaagaa gtggggagg ccctcctatc catagctgag   180

35
agggtttatt ctttgtggtt ctgctgtcag agcctttgga tgtctgatct gagatggagc   240

aaccccagct agacagaact ttgtagattt tgggggggttt aaaaggcctc aagcaaattc   300

40 taaaactttc tttgaacccc ctggcatagg ctcagtttcc ctgact   346

<210> 85
<211> 100
45 <212> DNA
<213> Human

241

<400> 85
acaaaaagcc cctttaaact tgggcccgct cgaggtcgtt tcgactgggc cgagacttcc   60

5   gaaaagaaaa tggtttttt tgccgaaatc aaccgggtaa   100

<210> 86
<211> 201
10   <212> DNA
<213> Human

<400> 86
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gaaaagagga agaaacgctt tttaggagtt aaggattaaa gtaaaaatta ttttgacata   120

attacctctt tttgtgacca ctcttaaagg ccaggaacat atttggagaa gcctagttgt   180

20   atgtaacagt gtggggtttc a   201

<210> 87
<211> 531
25   <212> DNA
<213> Human

<400> 87
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aacccagaac gaacgcgtta agtgcgcgtt atcttcctag gatagagtcg gtgacgggaa   120

tcttttaccc cggcactcgg gtccaccctc gcggcaccag aggtattctc cggcgagtcg   180

35   ttaaccatcg caatcgccga ccgagtttaa ggaccactcc ccacctttct cattagttaa   240

ggagaacgct actttacccc atagacggag aaatcgctac tcaactacca ggcgcgcgcc   300

gtcgagtccc tcttcctctc tttatgcatt tagagcgctt tcgtaagagt tttccctaga   360
40
ttcttctaag cgtagcgcgt ctactccaat gttttcgtta atccagcccg aactaacgcc   420

gcggaggagt cgatccgtct actcctatcc cgtcggctcg gatttactac aggagctaag   480

45   aaaacaaaaa gtaccagccc taaaggaaag tcaaaggacg cccgtaaaaa a   531

242

<210> 88
<211> 530
<212> DNA
5   <213> Human

<400> 88
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10   cattcggtcc agtgcctcgc cctattagcc cttaagccca ccgtttctaa aactcccaga   120

acagccaaac cggtccgccc aaggcctccg tcgttttata atatattccg tttacgtata   180

aggaacgaac cccccttcat taccacggtc ccgcgtccgc ctccttctcc attcgcaaca   240
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gttctattcc tttcagcctc ccgtacctgc ttccagaaca tcgcaccgcc atagtcgaaa   300

gatagcaaag attacccagc ttctattcct cgccccagag ccgagtaaat cgaagtttat   360

20   agaggcggaa tccaaccatt caagagttat aacaagttat cggcactcgg gggatcagaa   420

tataaactta atgtcccctt tattctcccg gacgcccctt ttaaccactt cttcctatct   480

ttcgctaaca agccattgac ggcgctttgc cgcgcgggcc catctcgcgt   530
25

<210> 89
<211> 332
<212> DNA
30   <213> Human

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40 ttccaccggc ctggttttgg tttttccata attaattaac caggggggncc anttaaaaaa   120

aattaaggna aggnttaaaa aatttaacca anggggggtt taaagggntt tttttttta   180

aaaaaaaagg ttaaancccc cccttttttt ttgggttggg gtgggaaaat tttgggaanc   240
45
cttaacccc gggttttgg gtttttttgg ccaaaaccccc ccggaaaaaa attaaaaaaa   300

244

ggaccggttt ccattttaat gggtattggg aa   332

5   <210> 90
     <211> 185
     <212> DNA
     <213> Human

10   <400> 90
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     cggtggtaac tattaaaaca taagtttaat cggtatttaa aattttaaaa tcaaaaaaaa   120

15   taaaatatat gcaaccctcc attccaagga agtatgatgt tactagatta tctgaaaatt   180

     ctcct   185

20   <210> 91
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     <223> n is a, c, g, or t

35   <220>
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     <223> n is a, c, g, or t

40   <400> 91
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     ctagggggta cttgaaaatg ctagaccagg ataactccta agtgtatatc cttggcagac   120

45
     tcgttatgct ttccaatcct gcttgcaata taagacacaa agtcagaata aagctcaaga   180

                              245

aaacagaacg tgcaggccat caagcgcaga gcctgctcat tggacaaccg caaagagtag   240

taagtgctgc cgctattcac acttagaaaa ggagaaccac ggggaaaaac caaattaatg   300

gggctgcttt ttgtcactct ggcatnagag aattgtgnng aaantttaac ttttgtaagc   360

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<210> 92
<211> 113
<212> DNA
<213> Human

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<223> n is a, c, g, or t

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aagtcaggat agtagttttc attccttaga tggtacaagt gttgagacaa atg   113

<210> 93
<211> 210
<212> DNA
<213> Human

<400> 93
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atgaaaatgt tactgttgga ttaaaaaaca aattaagtcc aaatagtgat taggcaagtt   120

ggtgaggtag ggggttgctg caagagcgga agttgaaaga tcttggaaaa attaaagaaa   180

cttcatagaa ccccatctct acaccaaaaa   210

246

<210> 94
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25 <222> (44)..(44)
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ctcagggggt cttttgttct ctacgcctaa aaacttaatc tgtttggaac aattccnttt   180

5 cctctctgta gaaattgacc tggccatggc tcctgtgaat gatacggttg ctattatccc   240

tgaacactgt aaaaatgaac tttgaaacag ttgggtagga cccaaacaga aaatgatgta   300

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10 aggtttagaa atttatgttc ggctttttaa agtttta   397

<210> 101
15 <211> 132
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30 ngaggaagac cc   132

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35 <212> DNA
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40
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aaaaatagat aatggtaatc caagcacgat ggtagccatc actctaattg ctttggggtt   180

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analysis

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